

(This section to be completed by subcontractor requesting document)

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Requestor

Document Center (Is requested to provide the following document)

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Title and author (if document is unnumbered) Contaminated Mats & Equip
Compilation of process/production information
(Three separate docs requested)
Please copy only the marked pages

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Signature

INTER - COMPANY CORRESPONDENCE

COMPANY Carbide and Carbon Chemicals Corporation LOCATION Post Office Box P.
Oak Ridge, Tennessee

TO Mr. B. H. Thompson
LOCATION K-303-7

DATE June 3, 1949

ATTENTION
COPY TO

SUBJECT Contaminated Materials
and Equipment

Mr. R. G. Jordan
Mr. J. R. Largey (2)
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File

The attached table reflects a tentative summary of contaminated materials and equipment located at various storage places throughout the K-25 Area.

In order to provide a more thorough and detailed report, a comprehensive survey and study of the subject will have to be made.

However, supplements will be provided from time to time as additional information is received.

A separate report on seals removed from the cascade will be distributed in the near future.

PROCESS DIVISION

Process Engineering

This document has been approved for release
to the public by: *P. Hartman*

for ASD
Technical Information Officer
Oak Ridge K-25 Site

3/1/96
Date

A. E. Smith
for B. E. Mitchell
Industrial Engineering Section

AA/lss

Carbide and Carbon Chemicals Corporation Operating
Contractor for the U.S. Atomic Energy Commission.

Classification changed to: **UNCLASSIFIED**
(1344 and category)
Thomas W. Kelly 12/18/95
AEC of ADD signature (initial reviewer) Date
Long W. Hall 12/18/95
ADD signature (final reviewer) Date

CONTAMINATED MATERIALS AND EQUIPMENT

June 3, 1949

<u>Location Vault No.</u>	<u>Description</u>
1X	Product Storage Cylinders
3A	Exhaust Fans, P. G. Cylinders, Stokes Pumps, Beach- Russ Pumps, Kinney Pumps, and A. C. Pumps
6A	Carbon and Alumina Separator and Miscellaneous Equipment from K-1303
8A	Various P. G. Cylinders and Coded Chemicals Contaminated Solutions
10A	Miscellaneous Stores Items, including used Crane Valve Parts classed as second hand items returned from Process to Stores. An estimated 90% of these items would exceed tolerance levels.
12A	Machine Tools, Unit Heaters, Valves, (Crane), and Miscellaneous Pumps
13A	Electrical Equipment Including Motors and Other Items Stored and Awaiting Repair.
15A	Contaminated Solutions
16A	Contaminated Solutions
17A	Contaminated Solutions
18A	Coolant Coolers, Heat Exchangers, and Miscellaneous Items Stored by Engineering and Development Group.
22A	A. C. Pump Bases and Parts
23A	Cold Traps and Carbon Traps
25A	Mobile Units, Cylinders, and Scrap Metal
31X	SAM Laboratory Equipment of Special Design, 14,000 Sq. Ft. Approximately 40 Tons
31A	Miscellaneous Heavy Equipment, Converter Furnace Stands, Ventilating Fans, Vacuum Pumps, 19,000 Sq. Ft., 150 Tons, extent of contamination unknown

CONTAMINATED MATERIALS AND EQUIPMENT (Cont.)

Location
Vault No.

Description

32A and 33A	80 Westinghouse Vacuum Pumps. (2000 CFM and 4000 CFM)
34A	P. G. Filters, 19,000 Sq. Ft., Extent of Contamination unknown

K-1401 Bldg.
Special Shops

1. Vacuum Pump Shop (Jamieson)

Welch Pumps (Vacuum)
Stokes Pumps "
Kinney Pumps "
Beach Russ Pumps "
Westinghouse Pumps " (2000 and 4000 CFM)
W-Pumps (Vacuum) (From Pilot Plant)
J-Pumps " (From Bldg. K-101)

2. A. C. Pump Shop (Jamieson)

Free of Contaminated Equipment

3. A. C. Seal Shop (Jamieson)

Some 2000 Contaminated Seals are Stored here (In Cans)

4. Valve Repair Shop (Stringfellow)

The Flow of Valves (to be reworked) Through this Shop are (a) small Crane SMP and Kerotest with P-10 Seats at a rate of some 300 per month, and (b) G-17A Crane Valves, sizes 6 thru 16 at a rate of some 9 to 12 per month.

Although these valves are decontaminated before entering the shop, quite frequently alpha radiation builds up to exceed tolerance levels.

CONTAMINATED MATERIALS AND EQUIPMENT (Cont.)

Location

K-1401 Bldg.

Special Shops

Description

5. Salvage Section (W. S. Jones)

Numerous Miscellaneous Items are Dismantled and Salvaged here. Monitoring and Decontamination of this Area is Established on a Routine Basis.

6. Basement (Southeast of Plastic Shop)

SAM Laboratory Equipment of Special Design is Stored Here, Estimated at Some 35 Tons.

7. Pilot Plant

Extent of Activity is Unknown.

Other Locations Throughout The K-25 Area

1. All Process Maintenance Shops Most Likely are Hot.

2. Hot Salvage Yard Near Callahar Gate.

3. Material Yard, West of and Adjacent to K-1035 and K-1036. Scrap Barrier Material Stored (in metal containers) Above Tolerance Levels.

4. K-1131 Equipment Storage
K-1031 Contaminated Carbon Storage
K-1405 Engineering Development Experimental Work.

5. K-1030 Electrical Maintenance Motor Repair Shop.
Motors Received From 306 and 312 Sections are Contaminated on the Shaft and Coupling End.